

88904

S/124/61/000/001/004/004
A005/A001

18.1110

Translation from: Referativnyy zhurnal, Mekhanika, 1961, No. 1, p. 64, # 1V522

AUTHOR: Muras, V.S.

TITLE: The Resistance of Steel to Deformation at Temperatures Near the Melting Point

PERIODICAL: "Sb. nauchn. tr. fiz.-tekhn. in-t AN BSSR", 1959, No. 5, pp. 99-112

TEXT: The author studied the resistance to deformation of carbon and alloyed steels at upsetting on a press at 700-1,500°C. It is shown that the existence of an upper limit of forging temperatures can conform with the Kurnakov-law for the austenitic zone only when qualitative changes in the steel are taken into account with the aid of electrolytic forced heating and rapid presses; one can carry out plastic deformation at all studied temperatures. At temperatures near the solidus line, the steels have very high plasticity; within the entire austenitic zone of temperatures, of course of change in the resistance to deformation is close to the exponential course. At the boundaries of the austenitic zone (at

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The Resistance of Steel to Deformation at Temperatures Near the Melting Point

temperatures A_3 and A_4), critical changes of resistance and plasticity were observed. When surpassing the temperature of the solidus and applying a load, a granular destruction of the steel proceeds in consequence of the appearance of the liquid phase along the grain boundaries, but the grains proper are not plastically deformed.

L. Mirkin

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

SEVERDENKO, V.P., akad.; MURAS, V.S., kand.tekhn.nauk

Pressing thin-walled steel pipes and shaped sections at temperatures near the solidus. Mash.Bel. no.6:49-51 '59. (MIRA 13:6)

1. Akademiya nauk BSSR (for Sverdenko).
(Drawing (Metalwork))

SEVERDENKO, V.P.; MURAS, V.S.

Extrusion of heat-resistant alloys with electrolytic heating. Sbor.
nauch. trud. Fiz.-tekh.inst. AN BSSR no.7:56-59 '61. (MIRA 15:7)
(Heat-resistant alloys) (Extrusion (Metals))

S/571/61/000/007/003/010
1048/1248

AUTHORS: Severdenko, V.P., and Muras, V.S.

TITLE: Plasticity and resistance to deformation of refractory alloys during pressure-working on high-speed presses with electrolytic heating

SOURCE: Akademiya nauk Belaruskay SSR. Fiziko-tekhnicheskiy institut. Sbornik nauchnykh trudov. no.7. 1961. 60-64

TEXT: The effect of electrolytic heating on the resistance to deformation and plasticity of three refractory alloys designated A (Fe-based, strained structure), B (single-phase Fe-based, fine-grain structure), and C (Ni-based, uniform structure) was studied using a high-speed press, with concentrated K_2CO_3 electrolyte as the heating medium. The temperature ranges were 1100-1308°C, 1100-1210°C, and 1070-1300°C for alloys A, B, and C respectively, and in all cases specimens deformed to a 16.6% strain showed no cracks. Disintegration took place at higher temperatures, due to partial melting along the grain boundaries. The resistance to de-

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I048/I248

Plasticity and resistance to...

formation (p) of alloy A was an exponential function of the temperature (t):

$$p = 7.1 e^{0.0057(1308^\circ - t)} ;$$

no such p - t relationship was observed in alloys B and C, due to recrystallization of these alloys. Although alloy A recrystallizes at these temperatures, the exponential relationship held during the short time of working. The plasticity of A at 1280 C decreased with increasing speed of the press, from 67% at 120 runs-per-minute to 52% at 250 runs-per-minute. The plasticity indexes obtained were always higher than those obtained in tests using furnace heating; due to the shorter thermo-mechanical cycle. The plasticity always decreased with increasing temperature, and the upper limit of plasticity was essentially the same as that obtained in the resistance-to-deformation tests; the breakdown ascribed to melting along the grain boundaries. There are 5 figures.

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S/571/61/000/007/004/010
I048/I248

AUTHOR: Muras, V.S.

TITLE: Effect of solution concentration on the parameters of electrolytic heating of products during deformation

SOURCE: Akademiya nauk Belaruskay SSR. Fiziko-tekhnicheskiy institut. Sbornik nauchnykh trudov. no.7. 1961. 75-82

TEXT: The heat supplied per cycle of electrolytic heating is theoretically proportional to the current so that more concentrated electrolytes should intensify the process. To test the validity of this rule, cylinders of low-carbon steel, 18mm in diameter and 24mm high, were heated in the $\text{ЭКНМ} - 15$ (EKNM - 15) apparatus, using K_2CO_3 electrolytes. The optimum concentration was 500-1117 g./l.; the working voltage was 110-105 v., as compared with 400 and 140 v. for electrolytes containing 10 and 200 g. K_2CO_3 /l. respectively. Although the K_2CO_3 concentration may be increased to 3500 g./l., the slight reduction in working voltage precludes the

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S/571/61/000/007/005/010
I048/I248

AUTHOR: Muras, V.S.

TITLE: A new method for electrolytic heating using alternating current

SOURCE: Akademiya nauk Belaruskay SSR. Fiziko-tekhnicheskii institut. Sbornik nauchnykh trudov. no.7. 1961. 83-88

TEXT: The use of d.c. for the electrolytic heating of metals requires rectifiers costing 30-60% of the apparatus. To eliminate the rectifiers an electrolytic-heating method was devised using a.c. A gas film enveloping the cathode is formed at about 245 v. during d.c. heating in 18% Na_2CO_3 ; a similar film is formed at about 300 v. with a.c. at a low rate of heating. No gas-film formed at voltages below 300 v., vigorous gas evolution occurred instead of heating. Better results were obtained with a solution of 750 g. KOH/l., but the high cost of KOH precludes its use in large-scale production. The rate of heating of low-carbon steel

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ACC NR: AP6010497

SOURCE CODE: UR/0201/65/000/003/0093/0095

AUTHOR: Severdenko, V. P.; Muras, V. S.; Sukhodrev, E. Sh.

ORG: none

TITLE: Butt-free extrusion of tool steels

SOURCE: AN BSM. Vestsi. Seriya fizika-tekhnichnykh navuk, no. 3, 1965, 93-95

TOPIC TAGS: tool steel, metal extrusion, hot die forging, solid lubricant /
9Khs tool steel, R18 tool steel

ABSTRACT: Hot extrusion usually is accomplished in such a way that at the end of the process of deformation a part of the forging (the butt) always remains in the container and die under the punch (Fig. 1). In most cases the butt is a production waste which must be removed after the product is ejected from the die assembly. This restricts the possibilities for using such a highly effective forming method as hot extrusion, particularly as regards the fabrication of intricate shapes from expensive alloys and high-alloy steels. In this connection, the authors developed a method of butt-free hot extrusion of solid and hollow shapes from structural and high-alloy tool steels (9Khs, R18, etc.). The principle of this method is as follows: an intermediate link or "insert" (Fig. 2) is placed in between the punch and the forging; the height of the insert is not lower than that of the die. The material of this insert

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ACC NR: AP6010497

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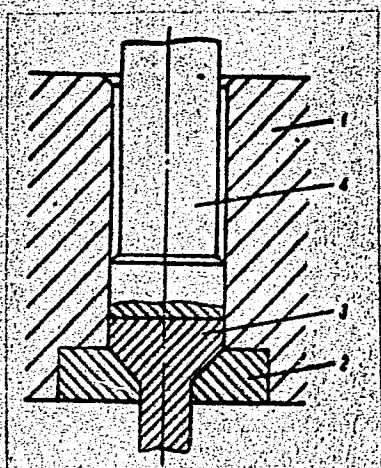


Fig. 1. Schematic of butt-involving extrusion:

1 - container; 2 - die; 3 - butt;
4 - punch

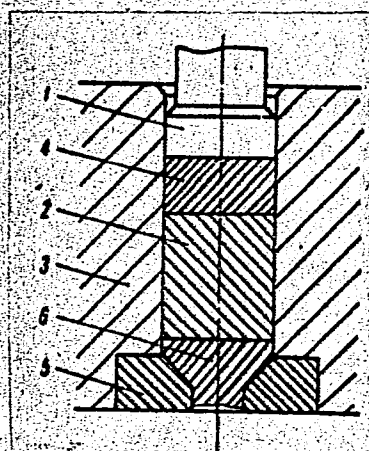


Fig. 2. Schematic of butt-free extrusion:

1 - punch; 2 - forging; 3 - container;
4, 6 - inserts; 5 - die

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ACC NR: AP6010497

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must withstand considerable loads without a change in its properties, its strength should be lower than the strength of the extruded metal and it should display the qualities of a lubricant. So far, of the materials investigated for this purpose, the best results were displayed by a graphite-clay-silica mixture subjected to thermal or chemical hardening after its molding; remains of the carbon electrodes of electric arc furnaces also are suitable. This development not only assures a successful butt-free hot extrusion but also displays other positive aspects. Thus, early during the extrusion part of the "insert" flows into the gap between the punch and the container and, throughout the distance traveled by the punch, provides a uniform layer of lubricant, which completely precludes jamming of the punch. Toward the end of the extrusion the material passes through the die and disintegrates into powder, which facilitates its removal for re-use. This technique also improves the conditions for automating the process of hot extrusion. Further, owing to the attendant improved lubricability of the die and product surfaces and shorter time of contact between the product and the die, galling is reduced and thus the wear of die also is reduced while the dimensional stability and surface quality of the extruded products are at the same time improved. With the aid of this technique the authors successfully hot-extruded solid and hollow reamers of 9KhS, R18 and 40Kh steels in crank presses. It turned out that this technique assures metal savings of 30-70%, reduces production cost, increases productivity, and markedly improves the quality of the tools (reamers, countersinks, screw taps) thus extruded. Orig. art. has: 2 figures.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 002

Card 3/3 (1/1)

L 42051-66 EWT(m)/EWP(1)/T LIP(c) WJ/RM
ACC NO AP6011231 (A) SOURCE CODE: UR/0413/66/000/006/0073/0073

INVENTOR: Klausner, G. M.; Sedymova, L. P.; Murasev, M. V.

ORG: none

TITLE: Method of hardening "Arzamit" paste.^{1/2} Class 39, No. 179916^{1/2}

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 75

TOPIC TAGS: phenolformaldehyde, resin, nitric acid/
Arzamit paste

ABSTRACT: An Author Certificate has been issued for a method of hardening "Arzamit" paste with a base of modified phenolformaldehyde resins by aging them at room temperature and followed by step-by-step heat treatment. To obtain a material resistant to the effect of oxidation agents such as 60% nitric acid, the heat treatment is carried out first at about 100C, then about 140C, and finally about 170C over a period of 1-3 hr. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 19Jan65/

Card 1/1 af

UDC: 678.632.028:66.046.4

MURASH, I. G.

"Agricultural and Biological Characteristics of Hothouse Tomatoes and Methods of Utilizing Them." Cand Agr Sci, Leningrad Agricultural Inst, Min Higher Education USSR, Leningrad, 1955. (RL, No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

MURASH, I. G.

Klin s-cveters Moskva, Gos. izd-vo sel'khoz lit-ry. 1965

MURASH, Ivan Grigor'yevich, kandidat sel'skokhozyaystvennykh nauk; TAIROVA, V.N., redaktor; ZUBRILINA, Z.P., tekhnicheskij redaktor

[Biological principles in raising tomatoes under cover] Biologicheskie osnovy agrotekhniki pomidorov v sashchishchennom grunte. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 70 p. (MIRA 10:2)
(Tomatoes)

ODINTSOV, P.N.; BEYNART, I.I.; MURASHCHENKO, N.F.

Hydrolysis of cellulose by small quantities of concentrated
sulfuric acid. Gidroliz.i lesokhim.prom. 13 no.6:6-7.'60.
(MIRA 13:9)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny
AN Latvyskoy SSR.
(Cellulose) (Hydrolysis)

OSTROVSKIY, I.I., inzh., red.; GRIGOROV, I.I., inzh., red.;
MURASHEV, A.G., inzh., red.; PECHURCHIK, S.A., inzh.,
red.; VEDENKIN, D.P., inzh., red.; KUDINOV, M.P., inzh.,
red.; YELISEYEVA, Ye.Ye., inzh., red.; PETRUNIN, I.S.,
inzh., red.; TURIANSKIY, M.A., inzh., red.; POZDNYAKOVA,
L.V., inzh., red.; KOKOV, K.V., inzh., red.

[Collections Nos. 5, 6, 14, 43 of standard district uniform
estimates for construction work] Sborniki No. 5, 6, 14, 43
edinykh-raionnykh edinichnykh rastsenok na stroitel'nye
raboty. Moskva, Stroiizdat, 1965. 86 p. (MIRA 18:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po de-
lam stroitel'stva. 2. Gosstroy SSSR (for Ostrovskiy, Vedenkin,
Kudinov). 3. Nauchno-issledovatel'skiy institut ekonomiki
stroitel'stva Gosstroya SSSR (for Grigorov, Murashev, Petrunin,
Yeliseyeva, Turianskiy, Pozdnyakova). 4. Gosudarstvennyy insti-
tut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii (for
Pechurchik). 5. Gosudarstvennyy projektnyy institut po proyeki-
rovaniyu predpriyatiy tekstil'noy promyshlennosti (for Kokov).

~~DOLGOV, F.G.~~ MURASHEV, A.I.

11-8-9/14

AUTHOR: Dolgov, F.G. and Murashev, A.I.

TITLE: Galenite in Paleozoic Carbonate Rocks in the North of the Krasnoyarsk Kray (Galenit v karbonatnykh porodakh paleozoya na severe Krasnoyarskogo kraya)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957, # 8, p 93-95 (USSR)

ABSTRACT: In 1949, in the northern part of the Krasnoyarskiy kray galenite was discovered in carbonate rocks of the Paleozoic age. The area of lead mineralization is characterized mainly by sediments of the Silurian, Permian and Triassic ages interstratified with layer intrusions of traprocks. The mineralization of galenite occurs in 3 forms: streaks, filling up of cavities and cavernes, and phenocrysts. The thickness of the ore-bearing horizon varies from 20 to 25 m. It is composed of arenaceous-argillaceous and carbonate rocks. Lead mineralization is observed mainly in the carbonate rocks. Four mineralized layers were discovered in the area, which can be traced without interruptions for 5 to 6 km with an average thickness of 2 to 2.5 m. The area of lead mineralization was not exactly established but amounts to tens of square km. The phenocryst type of mineralization is the

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MURASHEV, A.N.; POLYAKOV, A.K.; SLAVOROSOV, A.Kh., red.izd-va; ZAZUL'SKAYA,
V.F., tekhn.red.

[A collection of problems in mine surveying; a textbook for students
in mining schools specializing in "Mine surveying."] Sbornik zadach
po marksheiderskomu delu; uchebnoe posobie dlia uchashchikhsia gornyykh
tekhnikumov spetsial'nosti "Marksheiderskoe delo." Moskva, Ugle-
tekhnizdat, 1957. 216 p. (MIRA 11:2)

(Mine surveying--Problems, exercises, etc.)

MDP CH V. 1. No. 100

...the study...

giving R. 110. Study 1947

DZHOGALO, G.N.; MURASHEV, A.N.; SIN, ...P.

Mining a thick flat seam by inclined layers in an ascending order.
(MIRA 18:4)
Ugol' 40 no.2:20-23 F '65.

1. Shakhta No.107, Karagandinskiy basseyn (for Dzhogalo, Sin).
2. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo marksheyerskogo instituta (for Murashev).

MURASHEV. A.N., inzh.

Zone of influence of mine workings, and protection of equipment.
Ugol' 40 no.9:73-75 S '65.

(MIRA 18:10)

1. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
marksheyderskogo instituta.

MURAShev, B. D.

Dist: 4220

18

Roasting nickel and copper-nickel sulfide mats. D. V.
 Murashev, B. E. Burochkin, S. E. Lyunkin, B. D. Murashev,
 A. I. Semenov, A. G. Seleznev, L. L. Chernyak, and L. S.
 Semakova. U.S.S.R. 107,535, Sept. 26, 1957. The sul-
 fide product of leaching is sepd. into a metalized
 (large-grain) fraction and a sulfide (small-grain) fraction
 each of these is roasted separately in a bubbling layer. In
 the 1st stage, the roasting is done with preheated air.
 In the 2nd stage an air-O mixt. is used. To prevent dust-
 ing, it is preferable to agglomerate the fine-grained sulfide
 fraction prior to roasting.
 M. Hosh

9
1

SMETANICH, Vadim Sergeyevich; MURASHEV, G.A., red.

[Rybinsk Reservoir; annotated list of literature] Ry-
binskoe vodokhranilishche; annotirovannyi ukazatel' li-
teratury. Iaroslavl' Iarosl vskoe knizhnoe izd-vo, 1961.
79 p. (MIRA 17:10)

MEYEROVICH, M.; KOLODIZH, B.; MURASHEV, G., red.; KOZLOVA, Ye.,
red.

[Get acquainted with Yaroslavl: Short essay and guide-
book] 7- akom'tes', IAroslavl'! Kratkii ocherk-putevodi-
tel'. Izd. 2., ispr. i dop. IAroslavl', Verkhne-
Volzhsk e knizhnoe izd-vo, 1964. 50 p. (MIRA 18:3)

MURASHEV, I. I.

"Investigation of the Precision of Construction and Production of a
Measuring Indicator." Sub 15 Jun 51, Moscow Automotive Mechanics Inst

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SC: Sum. No. 480, 9 May 55

MURASHEV, M.; SOLOV'YEV, V.

Radars operation. Radio no. 11:44-47 M '56.
(Radars)

(MLRA 9:12)

MURASHEV, N.

107-12-36/46

AUTHOR: Murashev, N. and Solov'yev, V.

TITLE: Operation of Radars (Ekspluatatsiya radiolokatsionnykh stantsiy)

PERIODICAL: Radio, 1956, Nr 12, pp 47-49 (USSR)

ABSTRACT: An explanation of radar work is given, the "Pegmatit" radar being used as an example. The following elements of determination of the aircraft coordinates (range, azimuth, and height) are explained in detail: the slant range, the range scale, the range-scale calibration (150 kc), the maximum-blip method, the equisignal-zone method, the single-lobe method, and the h-f goniometer method. Fields of applicability of the above methods are indicated. The connection between the resolution of radar equipment and the discernible number of airplanes is discussed. Screen patterns of one, two, three, and more airplanes are considered.

There are 7 figures and 1 table in the article.

AVAILABLE: Library of Congress

Card 1/1

COUNTRY : USSR
CATEGORY : Forestry. Forest Management. K
ABST. NO. : RZhBiol., No.23 1258, No. 104540
AUTHOR : Murashev, N. V.
INST. : ~~State Forest Management Institute~~
TITLE : Increasing the Productivity of Forest Stands in the
Mogilev Oblast
ORIG. PUB. : Lesn. kh-vo, 1958, No. 5, 57-61
ABSTRACT : No abstract.

Cards: 1/1

MURASHEV, Nikolay Vladimirovich; SHCHERBAKOV, L.N., nauchnyy red.;
IOMOV, V.N., red.; NESMYSLOVA, L.M., tekhn. red.

[Methods of teaching a general course in metalwork] Metodika
prepodavaniia obshchego kursa siesarnogo dela. Moskva,
proftekhizdat, 1963. 163 p. (MIRA 16:9)
(Metalwork--Study and teaching)

MURASHEV, S. A.

MURASHEV, S. A.- "Comparative Analysis of Methods of Photo-polygonometry." Min of Higher Education USSR, Moscow Inst of Engineers of ~~Land~~ ~~Exploitation~~, Moscow, 1955 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

GEBCART, Ya.I., dotsent, kand.tekhn.nauk; MURASHEV, S.A., dotsent, kand.-
tekhn.nauk; SKOBELEV, A.G., kand.tekhn.nauk

"Basis of analytical methods used in stereophotogrammetric processing of the materials of aerial photographic surveying" by N.D. Il'inski. Reviewed by IA.I.Gebgart, S.A.Murashev, A.G.Skobelev. Izv. vys. ucheb. zav.; geod. i aerof. no.4:129-136 '61.
(MIRA 15:1)

1. Moskovskiy institut inzhenerov zemleustroystva.
(Aerial photogrammetry)

VERKHOVSKAYA, V.A.; DEYNEKO, V.F., prof.; ZYKOV, K.A.; KISLITSYN, A.S.; MURASHEV, S.A.; OBIRALOV, A.I.; PETRUSHINA, R.S.; POPOV, A.F.; RUMER, A.O.; SKOBELEV, A.T.; KHIZHINSKIY, D.G.; SHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Laboratory work in aerophotogeodesy for land utilization faculties of higher agricultural schools]Laboratorye raboty po aerofotogeodezii; dlia zemleustroitel'nykh fakul'tetov sel'skokhoziaistvennykh vuzov. Pod obshchei red. V.F.Deineko. Moskva, Izd-vo geodez.lit-ry, 1962. 109 p. (MIRA 15:10)

1. Moscow. Institut inzhenerov ~~zemleustroystva~~. 2. Kafedra aerofotogeodezii Moskovskogo instituta inzhenerov zemleustroystva (for all except Shurygina, Romanova).
(Aerial photogrammetry)

ALEKSANDROV, Nikolay Nikolayevich; VZNUZDAYEV, Sergey Vasil'yevich;
DVORYANKOV, Sergey Mikhaylovich; KEMNITS, Yuriy Vladimirovich;
MASLOV, Aleksey Vasil'yevich; MURASHEV, Sergey Yustinovich;
SOBRAYSKIY, Konstantin Stanislavovich; MURASHEV, S.A., redaktor;
KHROMCHENKO, P.I., redaktor izdatel'stva; KUZ'MIN, G.M., tekhnicheskii redaktor

[Precise calculations in topographical surveys of irrigation districts] Raschety tochnosti topograficheskikh s"emok v raionakh orosheniya. Moskva, Izd-vo geodezicheskoi lit-ry, 1956. 48 p.
(Topographical surveying) (MIRA 10:1)
(Irrigation)

KALABUGIN, Aleksandr Yakovlevich, prof.; MURASHEV, Sergey Yustinovich.
dotsent; KRZHIZHANOVSKAYA, G.V., red.; DEYEVA, V.M., tekhn.
red.; ZUBRILINA, Z.P., tekhn.red.

[Practical work in the study of land reclamation and agricultural water supply] Prakticheskie zaniatiia po melioratsii i sel'skokhoziaistvennomu vodosnabzheniiu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 175 p. (MIRA 13:1)
(Hydraulic engineering)

KALABUGIN, Aleksandr Yakovlevich, prof.; MURASHEV, Sergey Yustinovich,
dotsent; KRZHIZHANOVSKAYA, G.V., red.; GOR'KOVA, Z.D., tekhn.red.

[Agricultural water supply and land improvement] Sel'skokho-
ziaistvennoe vodosnabzhenie i melioratsiia. Izd.2., perer. i dop.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 342 p.

(MIRA 14:1)

(Water supply, Rural)

MURASHEV, V.; LEVINSON, M.

New regulations for street traffic in the city of Moscow.

Avt. transp. 33 no.5:21-23 My '55.

(MLBA 8:8)

(Moscow--Traffic regulations)

MURASHEV, V., shofer (Khabarovskiy kray); KAKHELASHVILI, M., shofer (g.Tbilisi);
SERGIYENKO, A., shofer (g.Gorlovka); NEKLYAYEV, B., avtomekhanik
(g.Kaunas)

Continuing the discussion on the perfect organization of work.
Avt.transp. 39 no.12:9-10 D '61. (MIRA 15:1)
(Transportation, Automotive)

AUTHOR: Murashev, V.

136-58-3-18/21

TITLE: More attention must be given to the introduction of new techniques in the Aluminium Industry. (Usilit' vnimaniye k vnedreniyu novoy tekhniki v alyuminiyevuyu promyshlennost')

PERIODICAL: Tsvetnyye Metally, 1958, Nr.3. pp. 86-87 (USSR)

ABSTRACT: In November 1957 the Scientific-Technical Society (Nauchno-tekhnicheskoye obshchestvo) for Non-Ferrous Metallurgy held a conference in Krasnotur'sk on the introduction of new techniques into aluminium production. Among the reports presented were: V.A. Bershteyn, Candidate of Technical Science and A.N. Lyapunov (VAMI) on "Ways of Intensifying Bayer's Method"; V.S. Sazhin, Candidate of Technical Sciences (Kazakhskiy Mining Institute) on "Hydrochemical Method for Producing Alumina from Alumino-silicate rocks"; I.P. Gupalo, Candidate of Technical Sciences (VAMI) on Intensification of Working Aluminium Elektrolyzers"; V.I. Nosikov, Candidate of Technical Sciences (Giproalyuminiy) on "Ways of Intensifying Aluminium Production in Working Works"; Ye.V. Gotleb (Sverdlovsk Medical Institute), Candidate of Medical Sciences on "Work Hygiene in Elektrolysis Shops"; N.M. Gorlanova (Sverdlovsk Institute of Labour and Occupational Diseases) on "Ways of Improving Gas Removal from Elektrolyzers"; E.E. Struve (BAZ) on "Reconstruction of Ventilating Systems". L.P. Khodak, Candidate of Technical Sciences (UFAN) described possible ways of using red slimes from aluminium works; G.Z. Nasyrov, Engineer (BAZ)

Card 1/2

More attention must be given to the introduction of new techniques in the aluminium industry. 136-58-3-13/21

described a continuous leaching installation; D.A. Gerasimov, Engineer, reported on a method for making alumina from Volchanskiy clinker; P.I. Vol'pin described an evaporator at the Dreprovskiy Aluminium Works; G.I. Bekhtev the intensification of alumina calcining kilns at the Ural'skiy Aluminium Works and A.I. Savchenko the use of hydrocyclones in alumina production at BAZ. Communications were made by the following: V.G. Vyvdenko (Ural'skoy Works), N.S. Matveyev (Bogoslavskiy), A.P. Romanyuk (Dreprovskiy) and G.A. Ivanov (Kandalukshskiy). The conference also heard the following reports: L.N. Antipin (Ural'skiy Polytechnic Institute) Candidate of Technical Sciences on optimal aluminium-bath electrolyte composition; V.G. Tigane (VAMI) Candidate of Technical Sciences and R.G. Islamova (BAZ), Engineer on anode production; S.N. Petrov (Nadvoitskiy Aluminium Works) and P.I. Rubin (VAMI) on the automation of aluminium electrolyzers. The conference adopted a programme for introducing scientific advances into the aluminium industry in 1958-1959.

AVAILABLE: Library of Congress.

Card 2/2 1. Aluminum-Production-USSR 2. Aluminum-Processing-Equipment

MURASHEV, V.

Positive and negative results. Za bezop.dvizh. 6 no.7:1-2 J1
'63. (MIRA 16:10)

1. Nachal'nik otdeleniya Otdela regulirovaniya ulichnogo
dvizheniya, Gosudarstvennaya avtomobil'naya inspektsiya.

MURASHEV, V.I.

DECEASED
c 1961

1961/3

SEE ILC

CONSTRUCTION

CHERNOV, O.I.; MURASHEV, V.I.; SHLIGMOVICHUS, Ya.G.

Effect of wetting the coal on its mechanical properties and
on the stressed state of the coal massif. Vop. gor. davn.
no.21:72-84 '64. (MIRA 18:8)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti
rabot v gornoy promyshlennosti.

TOMASHEVSKIY, L.P., inzh.; MURASHEV, V.I., inzh.; MOISEYEV, V.A., inzh.

Fireproof insulation of mined areas by means of double cofferdams.
Besop.truda v prom. 6 no.12:16-8 D '62. (MIRA 15:12)
(Coal mines and mining—Fires and fire prevention)

LEONT'YEV, V.N.; KOVRIZHIN, A.K.; TSAY, T.N.; MURASHEV, V.I.; KUKSOV, N.I.;
IVANUSHKIN, V.G.; IVANOV, V.V.; KOVACHEVICH, P.W.

Information of completed research and statements made by participants in
the conference. Vop. gor. davl. no.18;114-120 '63. (MIRA 18;7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Leont'yev).
2. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Kovrizhin).
3. Nauchno-issledovatel'skiy institut stroitel'stva ugol'nykh i gornorud-
nykh predpriyatiy, Kemerovo (for TSay). 4. Vostochnyy nauchno-issledovatel'-
skiy institut po bezopasnosti rabot v gornoy promyshlennosti (for Murashev).
5. Sibirskiy filial Vsesoyuznogo nauchno-issledovatel'skogo marksheyderskogo
instituta (for Kuksov). 6. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-
konstruktorskiy institut dobychi uglya gidravlicheskim sposobom (for
Ivanushkin). 7. Kuzbasskiy sovet narodnogo khozyaystva (for Ivanov).
8. Kemerovskiy gornyy institut (for Kovachevich).

MURASHEVA, A.N.

KYCHANOVA, O.A.; MURASHEVA, A.N.

Characteristics of Corynebacterium strains isolated during the
investigation for diphtherial bacilli; preliminary communication.
Zhur. mikrobiol. epid. i immun. no.11:101-104 N '54. (MLRA 8:1)
(CORYNEBACTERIUM DIPHTHERIAE,
from human carriers)

MURASHEVA, N., aspirantka

Using herbicides on fiber flax fields. Nauka i pered. op v
sel'khoz. 9 no.6:43-44 Je '59. (MIRA 12:9)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut l'na.
(Flax) (Herbicides)

MURASHEVA, N.V.

Data on the use of sodium fluorate in various parasitic diseases. Trudy AZVI 10:189-193 '57. (MIRA 12:8)

1. Iz kafedry parazitologii (zav.kafedroy - zasluzhennyy deyatel' nauki KazSSR, doktor prof. N.P.Orlov) Alma-Atinskogo zoovetinstituta.

(Sodium fluorate) (Worms, Intestinal and parasitic)
(Parasites--Domestic animals)

USSR / Diseases of Farm Animals. General Problems.

R

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 101326

Author : Murasheva, N. V.

Inst : Alma-Ata Zooveterinary Institute.

Title : Data on the Use of Sodium Fluoride in Various Parasitic Diseases.

Orig Pub : Tr. Alma-Atinsk. z. vet. inst., 1957, No. 1 2-1957.

Abstract : No abstract given.

Card 1/1

10

MOKASHOVA, V. S.

7
S.16. Pregnenolone-3-ol-20-one-20-acetate. N. N. Surin.
V. S. Sokolova and V. S. Murnashova. U.S.S.R. 103,998,
June 26, 1957. Solasodine is treated with Ac_2O the product
oxidized with CrO_3 in the presence of AcOH and NaOAc ,
saponified with alc. KOH , and acetylated. The treatment
with Ac_2O is carried out in the presence of p -toluenesulfonic
acid and the sapon. is carried out in tert-BuOH .
M. Horsch.

6
1-452d
1-454g

11
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MT

SUVOROV, N.N.; SOKOLOVA, L.V.; MOROZOVSKAYA, L.M.; MURASHINA, V.S.

Synthesis of progesterone from solasodin. Khim. nauka i prom. 3
no.2:281-282 '58. (NIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Progesterone) (Solasodine)

Murasheva, V.S.

SUVOROV, N.N.; YAROSLAVTSEVA, Z.A.; SOKOLOVA, L.V.; MOROZOVSKAYA, L.H.;
OVCHINNIKOVA, Zh.D.; MURASHEVA, V.S.; MEYEL'MAN, F.Ya.; VOROB'YEV, M.A.

Synthesis of cortisone from solasodine. Med.prom. 12 no.2:7-11 P '58.
(MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.
(SOLASODINE) (CORTISONE)

SOV/79-29-1-69/74

AUTHORS:

Suvorov, N. N., Sokolova, L. V., Morozovskaya, L. M.,
Murasheva, V. S.

TITLE:

Steroids (Steroidy). II. Synthesis of Progesterone From
 Solasodine (II. Sintez progesterona iz solasodina)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 329-332 (USSR)

ABSTRACT:

The present paper gives experimental data concerning the trans-formation of solasodine into the hormone progesterone. Solasodine (I) is, as we know, an aglucone of the steroid glucoalkaloids separated from *Solanum aviculare* Forst. This plant was cultivated in the USSR. A. S. Labenskiy synthesized solasodine. The synthesis of progesterone from solasodine has hitherto not been described. In reference 2 it was only noted that in the case of heating solasodine (I) with acetic acid anhydride in connection with further oxidation and saponification of the reaction products a semi-crystalline product results which was chromatographed, acetylated and separated after further treatment as the acetate of $\Delta^{5,16}$ -pregnadienol- 3β -on-20 (IV) and 3β -acetoxy-16-methoxy-20-keto- Δ^5 -pregnene beside

Card 1/3

SOV/79-29-1-69/74

Steroids. II. Synthesis of Progesterone From Solasodine

other not identified by-products. No details as to reaction conditions and yield were given. It must be emphasized that the transformation of (I) into (IV) can take place in three stages without by-products, however, the exact reaction procedure has hitherto not been found. In contrast with the acetate of the structurally close diosgenine in the case of heating solasodine with acetic acid anhydride the result is not compound (IV) but a completely resinified product. It was found that the oxidizing separation of the double bond (II) $\rightarrow$ (III) takes place most favorably by oxidation with $\text{Na}_2\text{Cr}_2\text{O}_7$ in acetic acid at room temperature. It is possible to carry out the separation of the side chain under formation of the $\Delta^{16(17)}$ double bond (III) $\rightarrow$ (IV) in an alkali as well as in an acid medium. In the case of an acid medium the reaction of solasodine into the final product (IV) occurs very smoothly. The yield in the latter amounted to 44% as calculated for (I). This compound is not only the initial product for the synthesis of progesterone and cortisone but also of other steroid hormones (Refs 6-8). The further transformation of (IV) into progesterone was carried

Card 2/3

SOV/79-29-1-69/74

Steroids. II. Synthesis of Progesterone From Solasodine

out according to Butenandt, Schmidt-Thomé, Oppenauer
(Refs 9,10). There are 13 references, 4 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut imeni S. Ordzhonikidze (All-Union Scientific
Chemo-Pharmaceutical Research Institute imeni
S. Ordzhonikidze)

SUBMITTED: November 1, 1957

Card 3/3

SUYOROV, H.N.; MURASHEVA, V.S.

Indole derivatives. Part 8: New synthesis of 5-hydroxytryptamine.
Zhur. ob. khim. 30 no.9:3112-3117 S '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Tryptamine)

SUVOROV, N.N.; MURASHEVA, V.S.

New synthesis of triptamines. Med. prom. 15 no.1:6-11 Ja '61.
(MIRA 14:1),

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordashonididze.
(INDOLE)

SUVOROV, N.N.; SOKOLOVA, L.V.; YAROSLAVTSEVA, Z.A.; OVCHINNIKOVA, Zh.D.
Murasheva, V.S.; LEYBEL'MAN, F.Ya.

Steroids. Part 15: Synthesis of cortisone-acetate from 3 -pregnane-
17 -diol-11,20-dione. Zhur. ob. khim. 31 no. 11:3715-3718 N '61.
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Cortisone) (Pregnanediol)

MURASHKA, M.G.; GATSIKA, P.D.

Quantitative characteristics of the Western Dvina River basin as represented by graphs. Vestsi AN BSSR Ser.fiz.-tekh.nau. no.1:25-37 '56.
(Western Dvina River--Water power) (MLRA 9:10)

8(6)

SOV/112-59-2-2257

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 1 (USSR)

AUTHOR: Zabrodskiy, S S., Lykov, A V., and Murashka, M. G

TITLE: Development of Scientific Research Into Power Problems in
Belorusskaya SSR (Razvitiye nauchnykh issledovaniy po energetike v
Belorusskoy SSR)

PERIODICAL: Izv. AN BSSR, Ser. fiz-tekhn. n., 1957, Nr 3, pp 57-72
(original in Belorussian)

ABSTRACT: Bibliographic entry.

Card 1/1

MURASHKOVICH, Anatoliy Mikhaylovich, inzh.; YEVSYUKOV, Yu.M., red.;
TOMANKINA, N.A., tekhn. red.

[English-Russian rocket dictionary] Anglo-russkii slovar' po raket-
noi tekhnike. Moskva, Gos. izd-vo fiziko-matematicheskoi lit-ry,
1958. 231 p. (MIRA 11:9)
(English language--Dictionaries--Russian)
(Rockets (Aeronautics)--Dictionaries)

MURASHKEVICH, F.I.

Equipment for humid electrostatic gas purification from dust.
Biol. tekhn.-ekon. inform. no.1:44-45 '57. (NIRA 11:4)
(Scrubber (Chemical technology))

AUTHORS: Zaytsev, M. M., Murashevich, F. I. 64-58-3-14/20

TITLE: On the Effect of the Point of Liquid Injection Upon the Hydraulic Resistance and the Efficiency of the Turbulent Scrubber (O vliyanií mesta podachi zhidkosti na gidravlicheskiye soprotivleniya i effektivnost' raboty turbulentnogo promyvatel'ya)

PERIODICAL: Khimicheskaya Promyshlennost', 1958, Nr 3, pp 50-55 (USSR)

ABSTRACT: As there were no systematics given in an earlier published paper as regards the subject mentioned in the title, in the present work experiments were carried out by an injection of water from the periphery to the center and vice versa whereby a laboratory-equipment was used and the brine of a Moscow coal as dust. By a critical analysis, already carried out, of the process of distribution of the liquid in turbulent scrubbers it has been found that for the optimum case the point of injection of the liquid must be determined by the outflow velocity of the liquid from the feed pipe end, the specific weight and the kinematic viscosity

Card 1/3

On the **Effect** of the Point of Liquid Injection
Upon the Hydraulic Resistance and the Efficiency
of the Turbulent Scrubber

64-58-3-14/20

of the gas, as well as the velocity of the current of gas at the outflow of the liquid, the specific water consumption and the dimensions of the spray pipe. Thereby it was observed that the rate of distribution of the liquid depends greatly on the point, where the liquid is injected to the central flow. From experiments on the influence of the hydraulic resistance of the spray pipe and of the place of addition of the liquid it was observed among others that at higher values of the specific water exchange a more pronounced decrease of the values of the hydraulic resistance coefficient with an approach of the point of injection contrary to the current of gas takes place. It was observed that the optimum arrangement of the point of injection, which corresponds to an optimum gas purification, depends mainly on the specific liquid exchange and very little on the gas velocity, and by application of Reynold's criterion a possibility of calculation is given for a determination, whereby also calculation formulae for bigger turbulent scrub-

Card 2/3

On the ~~Effect~~ of the Point of Liquid Injection
Upon the Hydraulic Resistance and the Efficiency
of the Turbulent Scrubber

64-58-3 4/20

bers with more points of injection are listed provided
that the basic data are known.

There are 6 figures, 2 tables and 11 references, 6 of
which are Soviet.

1. Gas scrubbers--Hydrodynamic characteristics 2. Gas
scrubbers--Design 3. Liquids--Injection 4. Gases--Properties

Card 3/3

ZATSEV, M.M.; MURASHKEVICH, F.I.

Effect of the location of the liquid delivery on the hydraulic
resistance and operational efficiency of turbulence scrubbers.
Khim. prom. no.3:178-183 Ap-May '58. (MIRA 11:6)
(Dust collectors)

MURASHKEVICH, F.I.

Efficiency of dust collection in a turbulent scrubber. Inzh.-fiz.
zhur. no.11:48-55 N '59 (MIRA 13:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po promy-
shlennoy i sanitarnoy ochistke gazov, Moskva.
(Dust collectors)

MURASHKEVICH, F. I., CAND TECH SCI, "^{Effect}INFLUENCE OF HYDRO-
DYNAMIC AND GEOMETRIC PARAMETERS ^{upon}ON THE EFFECTIVENESS OF
TRAPPING PARTICLES IN A TURBULENT WASHER." MOSCOW, 1960.
(MIN OF HIGHER AND SEC SPEC ED RSFSR. MOSCOW ORDER OF LABOR
RED BANNER ENG-CONSTRUCTION INST IN V. V. KUYBYSHEV). (KL,
2-61, 210).

-153-

ZAYTSEV, M.M., inzh.; MURASHKEVICH, F.I., inzh.

Effect of the usable portion of rods on the operational efficiency
of a rod-type fly-ash collector. Izv. vys. ucheb. zav.; energ. 3
no. 9:83-90 S '60. (MIRA 13:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po promyshlen-
noy i sanitarnoy oshistke gazov.
(Dust collectors)

MURASHKEVICH, F.I.

Design and use of a turbulent washer. Khim. prom. no. 7:577-
587 Q-N '60. (MIRA 13:12)
(Dust collectors)

MURASHKEVICH, T. V.

SHISHKO, A.M.; MURASHKEVICH, T.V.

Micromethod for the determination of the acid number of colophony.
Gidroliz. i lesokhin. prom. 10 no.6:17-18 '57. (MIRA 10:12)

1. Institut khimii AN BSSR.
(Gums and resins--Analysis) (Microchemistry)

SKRIGAN, A.I.; MURASHKEVICH, T.V.

Properties of lignin removed from petrified pines thousands of years
old. Dokl. AN BSSR 2 no.7:308-310 Ag '58. (MIRA 11:10)

1. Predstavleno akademikom AN BSSR B.V.Yerofeyevym.
(Lignin) (Trees, Fossil)

MURASHKEVICH, T.V.

Changes in the properties of certain lignite specimens of the BSSR
in connection with the initial stage of coal formation. Sbor.
nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:141-149 '59.

(MIRA 14:4)

(Lignite)

SKRIGAN, A.I.; MURASHKEVICH, T.B.

Properties of lignin extracted from pine wood of different ages. Sbor.
nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:150-158 '59.

(MIRA 14:4)

(Lignin)

MURASHKIN, A. L.

USSR/Miscellaneous - Administration

Card 1/1 : Pub. 133 - 15/20

Authors : Murashkin, A. L.

Title : We must end with the bureaucratic supervision method

Periodical : Vest. svyazi 7, page 27, July 1954

Abstract : Appeal by chief of General Accounting Office of Pskov Regional Communications Branch for the elimination of certain unnecessary bureaucratic ways in managing and operation of the regional sub-branches.

Institution : Accounting Office, Regional Communications Branch, Pskov

Submitted : ...

MURASHKIN, A.L.

MURASHKIN, A.L.

Work of efficiency innovators in communications enterprises of
Pskov Province. Vest.svyazi 16 no.10:16-17 0 '56. (MIRA 10:10)

1. Starshiy inzhener po kontrolyu Pskovskogo oblastnogo upravleniya
svyazi.

(Pskov Province--Telecommunication--Employees)

SOV/111-58-4-25/34

AUTHORS: Murashkin, A.L., Senior Control Engineer of the Pskov Oblast
~~Communication Administration~~; Ressler, K.P., Senior Engineer
of the Electrical Communication Section

TITLE: of the Pskov Communications Office (Ratsional-
izatory Pskovskoy kontory svyazi)

PERIODICAL: Vestnik svyazi, 1958, Nr 4, p 31 (USSR)

ABSTRACT: The authors describe the efforts made at the Pskovskoye
oblastnoye upravleniye svyazi (Pskov Oblast' Communication
Administration) to obtain suggestions for improvement of
the available equipment from the employees. Several examples
are cited where employees made valuable suggestions for im-
proving the communication equipment. There are 3 photos.

1. Communication systems--Equipment 2. Personnel--Performance

Card 1/1

SOV-111-58-9-21/30

AUTHOR: Murashkin, A.L., Senior Control Engineer

TITLE: New Postal Regulations in Effect (Novyye pochtovyye pravila v deystvii)

PERIODICAL: Vestnik svyazi, 1958, Nr 9, p 27 (USSR)

ABSTRACT: The author describes the efforts made by the staff of the Pskov Oblast' Communications Board's various branches to familiarise themselves with new postal regulations. There is 1 photo.

ASSOCIATION: Pskovskoye oblastnoye upravleniye svyazi (Pskov Oblast Communications Board)

1. Communication systems--USSR 2. Employee relations
3. Personnel--Training

Card 1/1

6(2)

AUTHOR:

Murashkin, A. L., Senior Control Engineer

SOV/111-59-3-23/30

TITLE:

Improving the Operation of the Oblast Communications Administrative Apparatus

PERIODICAL:

Vestnik svyazi, 1959, Nr 8, p 28 (USSR)

ABSTRACT:

This article outlines many of the criticisms and suggestions submitted by district (rayon) communications offices and selected communications in the Pskov oblast in connection with shortcomings in and ways of improving the operation of the oblast communications administration apparatus. Of 150 concrete suggestions received, 26 were addressed to Osipov, the senior supply engineer, 25 to the DRTS, 19 to postal communications sections, 17 to the electrical communications section and 17 to SMUR. The author notes and very briefly discusses some of the criticisms and suggestions received from the Velikiye Luki, Pustoshka, Pushkino-Gersky, Pytalovo, Idritsa (director - Peregrimov), and Loknya communications offices. The author observes, in conclusion, that on the basis of these suggestions the branch sections of the communica-

Card 1/2

Improving the Operation of the Oblast Communications Administration Apparatus

SOV/111-59-8-23/30

tions administration are reorganizing their operation.

ASSOCIATION: Pskovskoye oblastnoye upravleniye svyazi (Pskov Oblast Communications Administration)

Card 2/2

MURASHKIN, A.L.

Pay close attention to the communications of our working people.
Vest. svyazi 22 no.9:28-29 S '62. (MIRA 15:9)

1. Starshiy inzh. po kontrolyu Pskovskogo oblastnogo upravleniya
svyazi.

(Telecommunication--Employees) (Postal service)

MURASHKIN, A.L., inzh. po trudu

Greater degree of independence for industrial enterprises.
Vest. svyazi 24 no.12:12 D '64 (MIRA 18:2)

1. Pskovskiy rayonnyy uzel svyazi.

USSR/Plant: Diseases - Diseases of Cultivated Plants. 0-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30263

Author : Chuvikova, A.A., Murashkin, A.M.
Inst : Moscow Agricultural Academy ~~Imeni~~ K. A. Timiryazev
Title : Several Peculiarities in the Agrotechny and Selection of
Asters which Reduce Fusarium Disease.

Orig Pub : Dokl. Mosk. s.-kh. akad. Im. K.A. Timiryazeva, 1957, 29,
185-188.

Abstract : The symptoms of fusarium wilt in asters is described. The
cause of this is the genus of fungi Fusarium. Sowing
well ripenid seeds and maintaining optimal conditions for
plant growth and development reduce wilt in all varieties.
The basic condition for the manifestation of the disease
is high soil temperature (above 20°). -- A.M. Bunina.

Card 1/1

AUTHORS: Davydov, A. S., Murashkin, B. M. SOV/56-34-6-31/51

TITLE: The Collective Interactions of Odd Non-Spherical Nuclei
(Kollektivnyye возбужdeniya nechetnykh nesfericheskikh yader)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol. 34, Nr 6, pp. 1619-1624 (USSR)

ABSTRACT: Davydov and Filippov (Ref 1) and also Davydov and Chaban
(Ref 2) built up a theory of the collective excited states
of the even-even axial-symmetrical nuclei without the as-
sumption that the energy of the excited states is small with
respect to the energy of the surface vibrations. This paper
generalizes this theory to the case of axial-symmetrical
nuclei which have the spin $3/2$ or higher than $3/2$ in the ground
state. The first part of this paper discusses the collective
excitations of the odd nuclei which do not disturb the axial
symmetry of the nucleus. Formulae are given for the classical
energy of the collective motions of the nucleus and also for
the corresponding Schrödinger (Shredinger) equation. The so-
lution of this equation may be expressed as an expansion
with respect to generalized spherical harmonics, which are

Card 1/2

L 27101-66 ENT(m)

ACC NR: AP6017413

SOURCE CODE: UR/0097/65/000/010/0029/0033

AUTHOR: Murashkin, G. V. (Engineer)

ORG: none

TITLE: Effect of prestressing on strength and resistance to cracking of reinforced concrete girders subjected to bending and twisting

SOURCE: Beton i zhelezobeton, no. 10, 1965, 29-33

TOPIC TAGS: reinforced concrete, bending strength, plasticity

ABSTRACT: The author reports on studies undertaken in 1962-1963 at the Kybyshov Construction Engineering Institute to determine the effect of prestressing on the strength of reinforced concrete girders with a rectangular cross section subjected to combined bending and twisting. The experimental methods and specimens are described in detail and formulas are given for calculating the bending moments and torques. The work was directed by Professor Ya. V. Yakubovskiy. It was found that if the stresses in the longitudinal reinforcement elements reach the yield stress during destruction, then the prestressing of the lower longitudinal reinforcement material has no effect on the carrying capacity of the girders. It is shown that prestressing increases resistance to cracking. If destruction begins due to crack formation (e.g. when there is no transverse reinforcement), then the actual carrying capacity of the element is increased.

Accuracy in theoretical calculations of crack formation is improved by taking all the plastic properties of the concrete into consideration rather than merely those resulting from torque. This paper was written in support of the author's thesis. Orig. art. has: 4 figures, 8 formulas, and 1 table. [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 002
Cord 1/1/1 UDC: 666.982.4:621.072.2

MURASHKIN, I.N., inzh.; KAGAN, Ya.I., inzh.; SAVIN, V.A., inzh.

"Protection of river banks and slopes" by A.M. Frolov, K.A.
Podviaskin. Reviewed by I.N. Murashkin, I.A.I. Kagan, V.A. Savin.
Transp. stroi. 8 no.2:30-31 F '57. (MIRA 11:2)
(Shore protection)
(Frolov, A.M.) (Podviaskin, K.A.)

IOANNISYAN, Ashot Isayevich, doktor tekhn. nauk, prof. Prini-
mali uchastiye: VERTSMAN, G.Z., kand. tekhn. nauk;
MURASHKIN, I.N., inzh.; KANTOR, I.I., kand. tekhn. nauk
red.

[Surveying, design and planning of railroads] Izyskaniia
i proektirovanie zheleznykh dorog. 3., perer. izd. Mo-
skva, Transport, 1965. 411 p. (MIRA 18:5)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo
transporta (for Ioannisyan).

IOANNISYAN, Ashot Isayevich, prof. doktor tekhn. nauk. Prinimali
uchastiye: VERTSEAN, G.Z., kand. tekhn. nauk; MURASHKIN,
I.N., inzh.; KANTOR, I.I., kand. tekhn. nauk, red.

[Surveying, design and planning of railroads] Izyskaniia
i proektirovanie zheleznnykh dorog. Moskva, Transport,
1965. 411 p. (MIRA 18:9)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta
(for Ioannisyan).

MURASHKIN, I.N.

Use electronic computers in planning. Transp. stroi. 15 no.7:41-42
Jl '65. (MIRA 18:7)

1. Nachal'nik Moskovskogo gosudarstvennogo proyektno-izyskatel'skogo
i nauchno-issledovatel'skogo instituta transporta Ministerstva trans-
portnogo stroitel'stva SSSR.

PORTNYAGINA, M.I.; MURASHKIN, K.P.

Improved supplying in rolled metal. Stal' 16 no.10:921-924 0 '56.
(MIRA 10:9)

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MURASHKIN, L. S. --"Investigation of the Dynamics of the Cutting Process."
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Educational Institutions) Min of higher education USSR, Leningrad Polytechnic
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AUTHOR: Murashkin, L. S.

TITLE: A Simplified Method for the Determination of the Compressive Strain-hardening Curve (Uproshchennyy sposob opredeleniya krivoy deformatsionnogo uprochneniya pri szhatii)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 191, pp 151-159

ABSTRACT: The author has performed compression tests on cylindrical specimens made of steel, copper, lead, and aluminum. The results are shown in the form of a σ - K_f relationship, where σ is the stress referred to the initial cross-sectional area of the specimen and K_f is expressed in terms of the relative deformation ϵ : $K_f = 1/(1 - \epsilon)$. It is noted that the σ - K_f relationship is linear in the zone of strain hardening. In order to confirm the applicability of the method proposed, the author analyzed the results of Bridgman's experiments [Issledovaniye bol'shikh plasticheskikh deformatsiy i razryva (Investigation of Large Plastic Deformations and Failure). Moscow, Izd-vo in. lit., 1955]. The slope of the σ - K_f for tension is different from that for compression.

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